IN THE UNITED STATES PATENT AND TRADEMARK OFFICE FILING COMPLETION UNDER 37 CFR 52, 53, and/or 85

	•	Attention: Mail Stop Missing Par	rts
In re Ap	plication of:	Date: October 9,2	
F	KENNETH MARCUS P CONTROL OF THE CONT	Date:	003
'	W. CLAY DAVIS	C177 242	TIC
Serial N	KENNETH MARCUS V CONTROL OF 1 9 2003 V CONTR	Attorney Docket No.: <u>CXU-342</u>	-08
Serial IV	Will Refer	Group Art Unit: 2821	
Filed: J	uly 17, 2003	Group Art Cuit. 2021	
		Our Customer ID: 22827	
Confirm	nation No.: 2240		
		Our Account No.: 04-1403	
T:41	ATMOSPHERIC PRESSURE, GLOW DISCHARG	E, OPTICAL	
Title:	EMISSION SOURCE FOR THE DIRECT SAMPLE	ING OF LIQUID MEDIA	
Commis	ssioner for Patents		
U.S. Pat	tent and Trademark Office		
Post Of	fice Box 1450		
Alexano	dria, VA 22313-1450		
Sir:	lowing completes the filing of the above-identified pater	nt application under Rule 52, 53, and/or 85:	
	lowing completes the filing of the above-identified pater	in approacies are a second	
[X]	Rule 53 signed Declaration enclosed. This is a Rule 47 filing per attached Petition.		_
[]	Ended Declaration with attached S	pecification (including claims) which is a co	py of
[]			
r ı	- 11. Glad in non-Hnollen lanvillage.	Helice verified transmission	
[]			
[X]	20 sheet(s) of Replacement drawings enclosed. S	126. [] A4 [] 11 [22] 012 -7 -	
[X]	Attached is an assignment toCLEMSON UNIVE	NOTE :	o(s).
[]	Attached is an assignment to CLEMSON UNIVE Priority is hereby claimed under rule 55 and 35 U.S.C filed in Certified copy (copies) [] attached; [] already file	. 119 based on prior foreign approaches (e)	_, respectively.
	, filed in	ed on in U.S. Applic	ation, Serial No.
	Certified copy (copies) [] attached; [] aneady In-	filed	
	The state of the state of the Pula 27 claimed [] Atta	sched: Verified Statement(s) establishing	g "small entity."
[]			
[X]	Affached is the request return copy of the		
	Attached: Fee Transmittal: Recordation Form Cover	Sheet; Postcard Receipt	·
[X]	Attached: <u>Fee Transmittal</u> ; <u>Recordation Form Cover</u>	Sheet, I osteard Receipt	
	Attached: Fee Transmittal; Recordation Form Cover Preliminary Amendment: THE FOLLOWING FILING FEE IS BASED ON	CLAIMS AS FILED LESS ANY ABOVE	E CANCELLED
[X]	Attached: Fee Transmittal; Recordation Form Cover Preliminary Amendment:	CLAIMS AS FILED LESS ANY ABOVE	
[X]	Attached: Fee Transmittal; Recordation Form Cover Preliminary Amendment: THE FOLLOWING FILING FEE IS BASED ON PER MPE If not earlier paid, add Basic Filing Fee	CLAIMS AS FILED LESS ANY ABOVE P § 506 AND § 607	
[X]	Attached: Fee Transmittal; Recordation Form Cover Preliminary Amendment: THE FOLLOWING FILING FEE IS BASED ON PER MPEI If not earlier paid, add Basic Filing Fee	CLAIMS AS FILED LESS ANY ABOVE P § 506 AND § 607	\$ 770.00 \$ 414.00
[X]	Attached: Fee Transmittal; Recordation Form Cover Preliminary Amendment: THE FOLLOWING FILING FEE IS BASED ON PER MPEI If not earlier paid, add Basic Filing Fee Total Effective Claims 43 - 20 = 23 x \$18.00	CLAIMS AS FILED LESS ANY ABOVE P § 506 AND § 607 = = =	\$ 770.00 \$ 414.00
[X]	Attached: Fee Transmittal; Recordation Form Cover Preliminary Amendment: THE FOLLOWING FILING FEE IS BASED ON PER MPE If not earlier paid, add Basic Filing Fee	CLAIMS AS FILED LESS ANY ABOVE P § 506 AND § 607 = = poper) is present, add \$290.00	\$ 770.00 \$ 414.00 \$ 0.00
[X] []	Attached: Fee Transmittal; Recordation Form Cover Preliminary Amendment: THE FOLLOWING FILING FEE IS BASED ON PER MPE If not earlier paid, add Basic Filing Fee	CLAIMS AS FILED LESS ANY ABOVE P § 506 AND § 607 = = poper) is present, add \$290.00 Filing Fee	\$ 770.00 \$ 414.00 \$ 0.00 \$ 0.00
[X]	Attached: Fee Transmittal; Recordation Form Cover Preliminary Amendment: THE FOLLOWING FILING FEE IS BASED ON PER MPE If not earlier paid, add Basic Filing Fee	CLAIMS AS FILED LESS ANY ABOVE P § 506 AND § 607 = = poper) is present, add \$290.00 Filing Fee al due date of	\$ 770.00 \$ 414.00 \$ 0.00 \$ 0.00 \$ 1184.00
[X]	Attached: Fee Transmittal; Recordation Form Cover Preliminary Amendment: THE FOLLOWING FILING FEE IS BASED ON PER MPE If not earlier paid, add Basic Filing Fee	CLAIMS AS FILED LESS ANY ABOVE P § 506 AND § 607 = = poper) is present, add \$290.00 Filing Fee al due date of	\$ 770.00 \$ 414.00 \$ 0.00 \$ 0.00
[X] [] Since petitirequi	Attached: Fee Transmittal; Recordation Form Cover Preliminary Amendment: THE FOLLOWING FILING FEE IS BASED ON PER MPE If not earlier paid, add Basic Filing Fee	CLAIMS AS FILED LESS ANY ABOVE P § 506 AND § 607 = = oper) is present, add \$290.00 Filing Fee al due date of	\$ 770.00 \$ 414.00 \$ 0.00 \$ 0.00 \$ 1184.00
[X] [] Since petitirequi	Attached: Fee Transmittal; Recordation Form Cover Preliminary Amendment: THE FOLLOWING FILING FEE IS BASED ON PER MPE If not earlier paid, add Basic Filing Fee	CLAIMS AS FILED LESS ANY ABOVE P § 506 AND § 607	\$ 770.00 \$ 414.00 \$ 0.00 \$ 0.00 \$ 1184.00 \$ 130.00
Since petitirequi	Attached: Fee Transmittal; Recordation Form Cover Preliminary Amendment: THE FOLLOWING FILING FEE IS BASED ON PER MPE! If not earlier paid, add Basic Filing Fee	CLAIMS AS FILED LESS ANY ABOVE P § 506 AND § 607 = = oper) is present, add \$290.00 Filing Fee al due date of	\$ 770.00 \$ 414.00 \$ 0.00 \$ 0.00 \$ 1184.00 \$ 130.00 \$ 1314.00
Since petitirequi	Attached: Fee Transmittal; Recordation Form Cover Preliminary Amendment: THE FOLLOWING FILING FEE IS BASED ON PER MPE! If not earlier paid, add Basic Filing Fee	CLAIMS AS FILED LESS ANY ABOVE P § 506 AND § 607	\$ 770.00 \$ 414.00 \$ 0.00 \$ 0.00 \$ 1184.00 \$ 130.00 \$ 1314.00 \$ 657.00
Since petitirequi	Attached: Fee Transmittal; Recordation Form Cover Preliminary Amendment: THE FOLLOWING FILING FEE IS BASED ON PER MPE! If not earlier paid, add Basic Filing Fee	CLAIMS AS FILED LESS ANY ABOVE P § 506 AND § 607 =	\$ 770.00 \$ 414.00 \$ 0.00 \$ 0.00 \$ 1184.00 \$ 130.00 \$ 1314.00 \$ 657.00 \$ 657.00
Since petitirequi	Attached: Fee Transmittal; Recordation Form Cover Preliminary Amendment: THE FOLLOWING FILING FEE IS BASED ON PER MPE! If not earlier paid, add Basic Filing Fee	CLAIMS AS FILED LESS ANY ABOVE P § 506 AND § 607 =	\$ 770.00 \$ 414.00 \$ 0.00 \$ 0.00 \$ 1184.00 \$ 130.00 \$ 1314.00 \$ 657.00 \$ 657.00 \$ 0.00
Since petitirequi	Attached: Fee Transmittal; Recordation Form Cover Preliminary Amendment: THE FOLLOWING FILING FEE IS BASED ON PER MPE! If not earlier paid, add Basic Filing Fee	CLAIMS AS FILED LESS ANY ABOVE P § 506 AND § 607 = poper) is present, add \$290.00 Filing Fee al due date of	\$ 770.00 \$ 414.00 \$ 0.00 \$ 0.00 \$ 1184.00 \$ 130.00 \$ 1314.00 \$ 657.00 \$ 657.00 \$ 0.00 \$ 40.00
Since petitirequi	Attached: Fee Transmittal; Recordation Form Cover Preliminary Amendment: THE FOLLOWING FILING FEE IS BASED ON PER MPE! If not earlier paid, add Basic Filing Fee	CLAIMS AS FILED LESS ANY ABOVE P § 506 AND § 607	\$ 770.00 \$ 414.00 \$ 0.00 \$ 0.00 \$ 1184.00 \$ 130.00 \$ 1314.00 \$ 657.00 \$ 657.00 \$ 0.00 \$ 40.00
Since petitirequi If thi If "si If "n If "a If "F	Attached: Fee Transmittal; Recordation Form Cover Preliminary Amendment: THE FOLLOWING FILING FEE IS BASED ON PER MPE! If not earlier paid, add Basic Filing Fee	CLAIMS AS FILED LESS ANY ABOVE P § 506 AND § 607	\$ 770.00 \$ 414.00 \$ 0.00 \$ 0.00 \$ 1184.00 \$ 130.00 \$ 1314.00 \$ 657.00 \$ 657.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 10.00 \$ 10.00
Since petitirequi If thi If "si If "a If "F	Attached: Fee Transmittal; Recordation Form Cover Preliminary Amendment: THE FOLLOWING FILING FEE IS BASED ON PER MPE! If not earlier paid, add Basic Filing Fee	CLAIMS AS FILED LESS ANY ABOVE P § 506 AND § 607 =	\$ 770.00 \$ 414.00 \$ 0.00 \$ 0.00 \$ 1184.00 \$ 130.00 \$ 1314.00 \$ 657.00 \$ 657.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 130.00
Since petitirequi If thi If "si If "a If "F	Attached: Fee Transmittal; Recordation Form Cover Preliminary Amendment: THE FOLLOWING FILING FEE IS BASED ON PER MPE! If not earlier paid, add Basic Filing Fee	CLAIMS AS FILED LESS ANY ABOVE P § 506 AND § 607	\$ 770.00 \$ 414.00 \$ 0.00 \$ 0.00 \$ 1184.00 \$ 130.00 \$ 1314.00 \$ 657.00 \$ 657.00 \$ 0.00 \$ 0.00 \$ 40.00 \$ 0.00 \$ 0.00 \$ 1314.00
Since petitic required If this If "si If "no If "a If "For The the If here	Attached: Fee Transmittal; Recordation Form Cover Preliminary Amendment: THE FOLLOWING FILING FEE IS BASED ON PER MPE! If not earlier paid, add Basic Filing Fee	CLAIMS AS FILED LESS ANY ABOVE P § 506 AND § 607	\$ 770.00 \$ 414.00 \$ 0.00 \$ 0.00 \$ 1184.00 \$ 130.00 \$ 1314.00 \$ 657.00 \$ 657.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 130.00 \$ 1314.00
Since petitic required If this If "si If "no If "a If "For The the If here	Attached: Fee Transmittal; Recordation Form Cover Preliminary Amendment: THE FOLLOWING FILING FEE IS BASED ON PER MPE! If not earlier paid, add Basic Filing Fee	CLAIMS AS FILED LESS ANY ABOVE P § 506 AND § 607	\$ 770.00 \$ 414.00 \$ 0.00 \$ 0.00 \$ 1184.00 \$ 130.00 \$ 1314.00 \$ 657.00 \$ 657.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 130.00 \$ 1314.00
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Since petitirequi If thi If "si If "a If "F The the f here and here issu	Attached: Fee Transmittal; Recordation Form Cover Preliminary Amendment: THE FOLLOWING FILING FEE IS BASED ON PER MPE! If not earlier paid, add Basic Filing Fee	CLAIMS AS FILED LESS ANY ABOVE P § 506 AND § 607	\$ 770.00 \$ 414.00 \$ 0.00 \$ 0.00 \$ 1184.00 \$ 130.00 \$ 1314.00 \$ 657.00 \$ 657.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 130.00 \$ 1314.00
Since petitirequi If thi If "si If "F The the interest and here issue AD	Attached: Fee Transmittal; Recordation Form Cover Preliminary Amendment: THE FOLLOWING FILING FEE IS BASED ON PER MPE! If not earlier paid, add Basic Filing Fee	CLAIMS AS FILED LESS ANY ABOVE P § 506 AND § 607	\$ 770.00 \$ 414.00 \$ 0.00 \$ 0.00 \$ 1184.00 \$ 130.00 \$ 1314.00 \$ 657.00 \$ 657.00 \$ 40.00 \$ 0.00 \$ 10.00 \$ 10.0
Since petitirequi If thi If "si If "F The the interest and here issue AD Pos	Attached: Fee Transmittal; Recordation Form Cover Preliminary Amendment: THE FOLLOWING FILING FEE IS BASED ON PER MPE! If not earlier paid, add Basic Filing Fee	CLAIMS AS FILED LESS ANY ABOVE P § 506 AND § 607	\$ 770.00 \$ 414.00 \$ 0.00 \$ 0.00 \$ 1184.00 \$ 130.00 \$ 1314.00 \$ 657.00 \$ 657.00 \$ 40.00 \$ 0.00 \$ 10.00 \$ 10.0
Since petitirequi If thi If "si If "F The the f here and here issu AD Pos Gre	Attached: Fee Transmittal; Recordation Form Cover Preliminary Amendment: THE FOLLOWING FILING FEE IS BASED ON PER MPEI If not earlier paid, add Basic Filing Fee	CLAIMS AS FILED LESS ANY ABOVE P § 506 AND § 607	\$ 770.00 \$ 414.00 \$ 0.00 \$ 0.00 \$ 1184.00 \$ 130.00 \$ 1314.00 \$ 657.00 \$ 657.00 \$ 40.00 \$ 0.00 \$ 10.00 \$ 10.0



10-10-03

PATENT

In re Application of:

R. KENNETH MARCUS

W. CLAY DAVIS

Attention: Mail Stop Missing Parts

Attorney Docket No.: CXU-342-US

Serial No.: 10/622,187

Group Art Unit: 2821

Filed: July 17, 2003

Our Customer ID: 22827

Confirmation No.: 2240

Our Account No.: 04-1403

Title: ATMOSPHERIC PRESSURE, GLOW DISCHARGE, OPTICAL

EMISSION SOURCE FOR THE DIRECT SAMPLING OF LIQUID MEDIA
"Express Mail" Mailing Label Number <u>EU342 689 876 US</u>
Date of Deposit October 9, 2003
I hereby certify that this patent application is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the Date of Deposit indicated above and is addressed to the MAIL STOP MISSING PARTS, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22213-1450.
Denise R. Ginn
(Typed or printed name of person mailing paper or fee)
Denise R. Guni
(Signature of person mailing paper or fee)

PTO/SB/17 (10-03)
Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to re

FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL	AMO	UNT C	OF P	AYMENT
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Co	omplete if Known
Application Number	10/622,187
Filing Date	07/17/2003
First Named Inventor	R. KENNETH MARCUS
Examiner Name	Unknown
Art Unit	2821
Attornov Docket No.	CXIT-343 LIS

METH	METHOD OF PAYMENT (check all that apply)				FEE CALCULATION (continued)					
√ Check	Check Credit card Money Other None				3. ADDITIONAL FEES					
Deposit Account:				<u>Large</u>	Entity	Small	Entity			
Deposit Account			04-1403		Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
Number	 			/	1051	130	2051	65	Surcharge - late filing fee or oath	65.00
Deposit Account Name		Dority	/ & Manning, P	'.A.	1052	50	2052		Surcharge - late provisional filing fee or cover sheet	
	is autho	orized to	: (check all that apply)		1053	130	1053	130	Non-English specification	
Charge fee				overpayments	1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
			s) or any underpayment of	of fee(s)	1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
Charge fee			low, except for the filing account.	fee	1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
		FEE C	ALCULATION		1251	110	2251	55	Extension for reply within first month	
1. BASIC F			TLOGENTION		1252	420	2252	210	Extension for reply within second month	
Large Entity				ļ	1253	950	2253	475	Extension for reply within third month	
		<u>Fee F</u>	Fee Description	Fee Paid	1254	1,480	2254	740	Extension for reply within fourth month	
1001 770	1 '	(*) 385	Utility filing fee	[205.00]	1255	2,010	2255	1,005	Extension for reply within fifth month	
1002 340	2002	170	Design filing fee	385.00	1401	330	2401	165	Notice of Appeal	
1003 530	2003	265	Plant filing fee	 	1402	330	2402		Filing a brief in support of an appeal	
1004 770	2004	385	Reissue filing fee		1403	290	2403		Request for oral hearing	
1005 160	2005	80	Provisional filing fee		1451	1,510	1451	1,510	Petition to institute a public use proceeding	
!		S	UBTOTAL (1) (\$) 38	85	1452	110	2452		Petition to revive - unavoidable	
2 EVTDA	OL AUN				1453	1,330	2453	665	Petition to revive - unintentional	
Z. EXTRA	CLAIM	I FEES	FOR UTILITY AND		1501	1,330	2501	665	Utility issue fee (or reissue)	
T-4-! Claims	42	_	Extra Claims below	Y Fee Paid	1502	480	2502	240	Design issue fee	
Total Claims Independent	43	╡ -20**		= 207	1503	640	2503	320	Plant issue fee	
Claims	3	3**		1=0.00	1460	130	1460	130	Petitions to the Commissioner	
Multiple Depe			0.00	= <u>0.00</u>	1807	50	1807	7 50	Processing fee under 37 CFR 1.17(q)	
Large Entity Fee Fee	Small Fee	Il Entity Fee	Fee Description		1806	180	1806	180	Submission of Information Disclosure Stmt	
Code (\$)	Code	le (\$)			8021	40	8021	1 40	Recording each patent assignment per property (times number of properties)	40.00
1202 18 1201 86	220	-	Claims in excess of 20 Independent claims in a		1809	770	2809	385	Filing a submission after final rejection	$\overline{}$
1201 80	220		Multiple dependent clai		1810	770	2810	1 385	(37 CFR 1.129(a)) For each additional invention to be	
1204 86	220	04 43	** Reissue independen		,,,,,		20.5	, 000	examined (37 CFR 1.129(b))	
i			over original patent	ľ	1801	770	2801	385	Request for Continued Examination (RCE)	
1205 18	220	9 205	** Reissue claims in ex and over original pate		1802	900	1802	900	Request for expedited examination of a design application	
1	SUBTOTAL (2) (\$) ²⁰⁷				Other	fee (sp	ecify) _			
**or numbe	er previo		d, if greater; For Reissues		*Redu	nced pa	Basic F	Filing Fe	ee Paid SUBTOTAL (3) (\$) 105	

SUBMITTED BY (Complete (if applicable))						
Name (Print/Type)	James M. Bagarazzi	Registration No. (Attorney/Agent)	29,609	Telephone	864/271-1592	
Signature	James M. Bagare	mi		Date	10-9-03	

WARNING: Information on this f rm may b come public. Credit card inf rmation should not be included in this form. Provide credit card information and authorization in PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.